

FIRE-X-TROL

Wet Pipe Sprinkler System Expansion Tanks







For the Absorption of Expanded Fluids



FM APPROVED

FPT-20VC through FPT-70VC R

FIRE-X-TROL

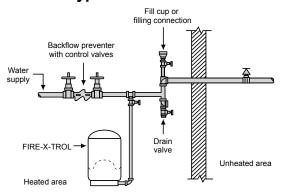
Fire-X-Trol® expansion tanks prevent damage to fire protection systems by accommodating the expanded volume of system fluids that result from temperature changes. This keeps the system pressure below the pressure limitations of the system components. Fire-X-Trol can be used with water, glycerine and propylene glycol systems.



Features

- For use with fire protection anti-freeze systems per NFPA 13, 2010 TIA 10-2 edition.
- · Meets all ASME Section VIII, Division 1 Standards.
- UL® Listed; FM Approved.
- · Steel shell with stainless steel system connection.
- Polypropylene liner to help prevent system corrosion.
- High performance elastomer compound diaphragm.
- Available in sizes from 1.5 to 90 gallons.
- Factory pre-charge: 25 psig.

Typical Installation



In-Line Models Specifications						
Model Number	Tank Volume (Gallons)	Max. Accept. Volume (Gallons)	A Diameter (Inches)	B Height (Inches)	System Conn. NPTF (Inches)	Shipping Weight (lbs.)
FPT-1C	1.5	.69	8	9	3/4	16
FPT-5C	2.1	.90	10	10	3/4	21
FPT-12C	6.4	3.30	12	16	3/4	36

Non-ASME models available.

FPT-1C through FPT-12C	
A	
FPT-80VC through FPT-210VC	

Stand Models Specifications							
Model Number	Tank Volume (Gallons)	Max. Accept. Volume (Gallons)	A Diameter (Inches)	B Height (Inches)	C Diameter (Inches)	System Conn. NPTF (Inches)	Shipping Weight (lbs.)
FPT-20VC	8	3.3	12	20	11	3⁄4	52
FPT-30VC	14	9.0	16	19	13	3⁄4	97
FPT-42VC	17	11.4	16	24	13	3⁄4	116
FPT-60VC	25	11.4	16	33	13	3⁄4	154
FPT-70VC	34	11.4	16	42	13	3⁄4	197
FPT-80VC	53	34.0	24	36	16	11/4	251
FPT-120VC	66	34.0	24	44	16	11/4	281
FPT-180VC	77	34.0	24	49	16	11/4	353
FPT-210VC	90	34.0	24	56	16	11/4	382
1015							

Non-ASME models available.

Anti-Freeze Systems Sizing Charts

Glycerine Systems

Sizing Chart for 48% Glycerin System

System Pressure (psig) 140 FPT-5C FPT-1C FPT-5C FPT-30VC 10 FPT-5C FPT-42V 15 FPT-5C 20 FPT-5C System Volume (gal.) 30 FPT-5C FPT-80VC 40 FPT-42VC FPT-120VC FPT-60VC FPT-210VC 60 FPT-12C 70 80 90 FPT-20VC 100 110 FPT-42VC FPT-60VC 120 130 FPT-30VC 140 FPT-42VC FPT-60VC 150 FPT-42VC FPT-42VC FPT-60VC FPT-70VC FPT-80VC FPT-180V

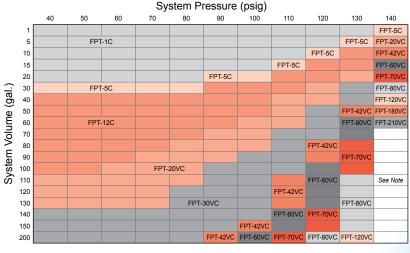
Glycerine Specifications*

Solution	Specific Gravity	°F	°C
(by volume)	at 77°F (25°C)	TF.	ν.
0%	1.000	32	0
5%	1.014	31	-0.5
10%	1.029	28	-2.2
15%	1.043	25	-3.9
20%	1.059	20	-6.7
25%	1.071	16	-8.9
30%	1.087	10	-12.0
35%	1.100	4	-15.5
40%	1.114	-2	-19.0
45%	1.130	-11	-24.0
50%	1.141	-19	-28.0

*Chemically Pure (CP) or United States Pharmacopoeia (USP) 96.5%. Ref. NFPA13, 2010 TIA 10-2 Edition.

Propylene Glycol Systems

Sizing Chart for 38% Propylene Glycol System



Propylene Glycol Specifications

Solution (by volume)	Specific Gravity at 77°F (25°C)	°F	°C
0%	1.000	32	0
5%	1.004	26	-3
10%	1.008	25	-4
15%	1.012	22	-6
20%	1.016	19	-7
25%	1.020	15	-10
30%	1.024	11	-12
35%	1.028	2	-17
40%	1.032	-6	-21

Note: AMTROL recommends installing a pressure reducing valve before the backflow preventer where system pressure is 140 psig and system volume is above 60 gallons.

Assumptions: Maximum Working Pressure: 175 psig.

Change in Temperature: 100°F (37.7°C).

Expansion Tank Precharge: 2 psig below system static pressure.





Made in the USA

From modest beginnings in founder Chet Kirk's garage to our current, state-of-the-art facilities, Amtrol is still proudly manufacturing products in the USA. Our talented, dedicated associates are committed to providing you with the highest quality, most reliable and best performing products on the market.



Associates at our West Warwick, Rhode Island manufacturing facility.

Additional support materials include:

- Commercial and Industrial Products Catalog (MC 4401)
- Data Submittal Sheets (MC 4400)
- Engineering Handbook (MC 4402P)
- Product Sizing programs on www.amtrol.com
- Revit Files (MC 10205)
- AutoCAD Files (MC 10029)









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